

TH

Notice of Allowability

Application No.

10/533,033

Examiner

Tho G. Phan

Applicant(s)

ROSENBERG ET AL.

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to a response filed on 7/23/07.
2. ☒ The allowed claim(s) is/are 1-9, 11-13 and 15-17.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Tho G Phan
Primary Examiner
Art Unit: 2821

DETAILED ACTION

Allowable Subject Matter

1. The following is a statement of reasons for the indication of allowable subject matter:

Claim 1 is allowable over the art of record because the prior art does not teach wherein the antenna sections form a three-dimensional structure having a substantial two-dimensional extension in at least one of the first and second planes, and a printed circuit board including a ground plane and radio circuits for the loop antenna element, wherein the antenna element sections are provided along the sides of and bound by the printed circuit board and in combination with the remaining claimed limitations.

2. Claim 4 is allowable over the art of record because the prior art does not teach a sixth and a seventh antenna section essentially aligned with each other and provided in the first and the second plane, respectively, where the sixth and seventh sections are generally perpendicular to at least parts of and connected to the first and third section, respectively, wherein the antenna sections form a three-dimensional structure having a substantial two-dimensional extension in at least one of the first and second planes and in combination with the remaining claimed limitations.

3. Claim 9 is allowable over the art of record because the prior art does not teach wherein the antenna sections form a three-dimensional structure having a substantial two-dimensional extension in at least one of the first and second planes, wherein a length of the loop antenna element corresponds to a full wavelength of a center frequency in a desired frequency band and in combination with the remaining claimed limitations.

4. Claim 12 is allowable over the art of record because the prior art does not teach at least one passive antenna element in a third plane parallel to the first plane and provided on the other side of the first plane than the second plane for providing a resonating circuit or tuning element for the loop antenna and in combination with the remaining claimed limitations.

5. Claim 15 is allowable over the art of record because the prior art does not teach wherein the antenna sections form a three-dimensional structure having a substantial two-dimensional extension in at least one of the first and second planes, wherein the device is a portable communication device, wherein the portable communication device is a headset and in combination with the remaining claimed limitations.

6. Claim 16 is allowable over the art of record because the prior art does not teach wherein the antenna sections form a three-dimensional structure having a substantial two-dimensional extension in at least one of the first and second planes; and a dielectric material on which the sections of the antenna element are provided, in order to produce a component that can be mounted on a printed circuit board and in combination with the remaining claimed limitations.

Conclusion

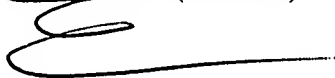
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho G. Phan whose telephone number is 571-272-1826. The examiner can normally be reached on M-F, 9:30-6:00.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at ~~866-217-9197~~ (toll-free).



Tho G Phan
Primary Examiner
Art Unit 2821

**THO PHAN
PRIMARY EXAMINER**